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(54) POST-TREATMENT OF COMPOSITE ALUMINUM-ZINC PLATED STEEL SHEET

(57)Abstract:

PURPOSE: To prevent the loss of the metallic gloss of a plating surface and the consequent blackening thereof by coating an aq. soln. contg. Cr acid or chromate and water-soluble resin or emulsion resin on the plated surface of a composite Al-Zn plating steel sheet.

CONSTITUTION: An Al-Zn alloy is hot-dipped on the surface of a steel sheet in an Al-Zn bath for the purpose of improving the corrosion resistance thereof. The composite Al-Zn plating layer loses the metallic gloss in the atm. and blackens, thus having poor appearance. An aq. soln. contg. a Cr compd. contg. CrO₃ or hexavalent Cr such as K salt, ammonium salt, Mg salt, Co salt, Ni salt, Mn salt, etc. of dichromic acid and a water-soluble resin or emulsion resin of polyacryl or polyacrylonitrile is coated on the plating surface in order to prevent the above-mentioned trouble. The coating is dried at 60W250°C to form the resin film having 0.5W4μm film thickness and 5W50mg/cm² content of Cr in the film on the surface.